

IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Heather Bean, Mark Robins

Confirmation No.:

Application No.: NEW

Examiner:

Filing Date: August 27, 2003

Group Art Unit:

Title: ADAPTIVELY READING ONE OR MORE BUT FEWER THAN ALL PIXELS OF IMAGE  
SENSOR

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either a:  
☐ Statement under 37 CFR 1.97(e), or  
☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:  
☐ Statement under 37 CFR 1.97(e)(1) or (2), and  
☐ a \$180.00 fee set forth in 37 CFR 1.17(p).  
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

☒ Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Citation together with copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

"Express Mail" label no.

Date of Deposit

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Alexandria, VA 22313-1450.

By \_\_\_\_\_

Typed Name:

Respectfully submitted,

Heather Bean, Mark Robins

By



Thomas S. Auchterlonie

Attorney/Agent for Applicant(s)

Reg. No. 37,275

Date: 8/27/2003

<b>FORM PTO-1449</b>  <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)	ATTY. DOCKET NO.	APPLICATION NO.	CONFIRMATION NO.
	<b>10018579-1</b>		
	APPLICANT <b>Heather Bean, Mark R bins</b>		
	FILING DATE	GROUP	
	<b>August 27, 2003</b>		

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A				
	1B				
	1C				
	1D				
	1E				
	1F				
	1G				
	1H				
	1I				
	1J				
	1K				

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

**OTHER REFERENCES** (including Author, Title, Date, Pertinent Pages, etc.)

1Q	"Charge-Coupled Device (CCD) Image Sensors", Rev. No. 1, May 29, 2001 <a href="http://www.kodak.com/global/plugins/acrobat/en/digital/ccd/applicationNotes/chargeCoupledDevice.pdf">http://www.kodak.com/global/plugins/acrobat/en/digital/ccd/applicationNotes/chargeCoupledDevice.pdf</a> , pp. 11 and 13.
1R	Excerpt from "Introduction to CMOS Image Sensors", <a href="http://www.micro.magnet.fsu.edu/primer/digitalimaging/cmosimagesensors.html">www.micro.magnet.fsu.edu/primer/digitalimaging/cmosimagesensors.html</a> , Turchetta et al.
1S	"Application Note, Solid State Image Sensors, Terminology", December 8, 1994 <a href="http://www.kodak.com/global/plugins/acrobat/en/digital/ccd/applicationNotes/terminology.pdf">http://www.kodak.com/global/plugins/acrobat/en/digital/ccd/applicationNotes/terminology.pdf</a> , p. 28.

DATE CONSIDERED

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## REFERENCE DESIGNATION

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	1M					
	1N					
	1O					
	1P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

1Q	Excerpts from "Anatomy of a Digital Camera: Image Sensors", Sally Wiener Grotta, June 12, 2001, sections "NASA's APS" and "Sensor Packaging".
1R	"Digital Imaging Using CMOS Sensors," Borg et al., Agilent Technologies, Co., Ltd., <a href="http://www.eetasia.com/ARTICLES/2001APR/2001APR02_MSD_TAC.PDF">http://www.eetasia.com/ARTICLES/2001APR/2001APR02_MSD_TAC.PDF</a>
1S	"Lecture Notes 3, Introduction to Image Sensors," EE392B, Handout#5, Prof. A. El Gamal, slide No. 27, <a href="http://www.stanford.edu/class/ee392b/handouts/sensors.pdf">http://www.stanford.edu/class/ee392b/handouts/sensors.pdf</a>

EXAMINER

DATE CONSIDERED